

What is Claimed:

- 1 1. A device for adjusting the position of a lens along an optical
2 axis of the lens, the device comprising:
 - 3 a lens housing for carrying the lens;
 - 4 a first knob positioned to rotate about the lens housing;
 - 5 a second knob cooperatively threaded to the first knob such
6 that rotation of the first knob relative to the second knob causes axial movement of
7 the lens housing along the optical axis; and
8 a coupler for coupling the lens housing to the second knob to
9 prevent the lens housing from rotating relative to the second knob when the first
10 knob is rotated.
- 1 2. The device of claim 1, wherein the lens housing defines a
2 channel adapted to receive the coupler.
- 1 3. The device of claim 2, wherein the channel is an axial groove in
2 a surface of the lens housing.
- 1 4. The device of claim 1, wherein the second knob defines a
2 channel adapted to receive the coupler.
- 1 5. The device of claim 4, wherein the channel is an opening in a
2 surface of the second knob.

1 6. The device of claim 1, wherein the lens housing defines a first
2 channel, the second knob defines a second channel, and the coupler extends
3 between the first and second channels.

1 7. The device of claim 6, wherein the coupler couples the first
2 channel to the second channel.

1 8. The device of claim 6, wherein the first and second channels are
2 disposed axially adjacent each other.

1 9. The device of claim 6, wherein the first and second channels are
2 disposed radially adjacent each other.

1 10. The device of claim 1, further comprising a compression device
2 disposed between the lens housing and the second knob adapted to provide an axial
3 force against the lens housing and the second knob.

4 11. The device of claim 10, wherein the compression device is
5 mounted onto the lens housing.

1 12. The device of claim 11, wherein the compression device is an
2 elastic body.

1 13. The device of claim 11, wherein the compression device is a
2 spring.

1 14. The device of claim 11, wherein the compression device is a
2 washer

1 15. A device for adjusting an objective lens relative to an optical
2 system, the device comprising:

3 an objective cell for holding the objective lens;

4 a lock coupled to the objective cell and the optical system to
5 prevent the objective cell from rotating relative to the optical system;

6 a knob coupled to the objective cell and the lock, the knob
7 being adapted to move the objective cell in a translation direction when the knob
8 rotates about the objective cell.

1 16. The device of claim 15, wherein the objective cell defines a
2 channel and the lock includes a coupler extending between the channel and the
3 system.

1 17. The device of claim 15, further comprising a compression device
2 disposed between the objective cell and the system adapted to provide an axial force
3 against the objective cell and the system.

1 18. The device of claim 17, wherein the compression device is an
2 elastic body.

1 19. The device of claim 17, wherein the compression device is a
2 spring.

1 20. The device of claim 17, wherein the compression device is
2 coupled to the objective cell.